PATENT ABSTRACTS OF JAPAN

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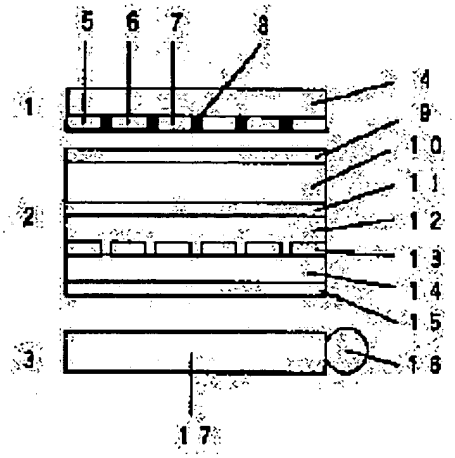
(54) LUMINOUS DISPLAY

(57)Abstract:

PROBLEM TO BE SOLVED: To realize a display with a wide view angle, long life and high color purity by providing a light wavelength conversion mechanism containing an organic phosphor capable of light emitting blue, green and red with at least a kind or above of light with a central wavelength of a specified area.

SOLUTION: This display consists of the light wavelength conversion mechanism 1 containing the organic phosphor, an optical shutter mechanism 2 and an element 3 converting electric energy to the light. The light wavelength conversion mechanism 1 contains the organic phosphor, and can emit the light in the visible region by the light of at least a kind or above of the light with the central wavelength of 390-700nm. When three primary colors are obtained for a color display, the matter that a light emission central wavelength of a light source enters within the range of 390-500nm is preferred, and most preferably, it enters within the range of 440-500nm. In such a case, by using the organic phosphor, a long wavelength side of a wavelength band is used as the light source until an area visual sensitively visible to blue-green such as 500nm. Thus, a full color image display without view angular dependency becomes possible.



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